

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously Presented) A method for automatic handling of errors within a database engine, the method comprising the steps of:

detecting an error while executing a query access plan, wherein the error is an execution error of a type that halts execution of the query access plan, and wherein the query access plan is of the type generated by a query optimizer;

in response to detecting the error, automatically rebuilding the query access plan with the query optimizer to generate a new query access plan; and

executing the new query access plan to generate at least a portion of a result set for storage or display.

2. (Cancelled)

3. (Original) The method of claim 1, wherein the error is a function check.

4. (Original) The method of claim 1 further comprising the steps of:

receiving another error while executing a function within the new query access plan;

identifying a first implementation method of the function within the new query access plan; and

rebuilding the new query access plan by replacing the first implementation method with a second implementation method of the function so as to generate a rebuilt query access plan.

5. (Original) The method according to claim 1, further comprising the step of:

logging information about the error, and the new query access plan.

6. (Original) The method according to claim 1, further comprising the step of:
reporting the error.

7. (Previously Presented) A method for automatic handling of errors within a database engine, the method comprising the steps of:

receiving an error while executing a function within a query access plan, wherein the error is an execution error of a type that halts execution of the query access plan, and wherein the query access plan is of the type generated by a query optimizer;

identifying a first implementation method of the function within the query access plan;

rebuilding the query access plan with the query optimizer by replacing the first implementation method with a second implementation method of the function so as to generate a new query access plan; and

executing the new query access plan to generate at least a portion of a result set for storage or display.

8. (Original) The method of claim 7, wherein the function is one of a join function, an indexing function, a grouping function, and an ordering function.

9. (Cancelled)

10. (Previously Presented) The method of claim 7, further comprising the steps of:
receiving another error while executing the function within the new query access plan; and

rebuilding the new query access plan by replacing the second implementation method with a third implementation method of the function.

11. (Original) The method according to claim 10 further comprising the step of:
logging information about the error, the another error, and the new query access plan.

12. (Previously Presented) A method for automatic handling of errors within a database engine, the method comprising the steps of:

- executing a query access plan comprising a plurality of functions, each function including a first implementation method, and the query access plan of the type generated by a query optimizer;

- detecting a first error when executing a first function, wherein the first error is an execution error of a type that halts execution of the query access plan;

- rebuilding the query access plan with the query optimizer to generate a new query access plan;

- executing the new query access plan to generate at least a portion of a result set for storage or display;

- receiving a second error while executing the first function within the new query access plan; and

- rebuilding the new query access plan by replacing the first implementation method with a second implementation method of the function.

13.- 21 (Cancelled)